



RE: Sulzer Stormwater Installation
McKenna, James (Jim)

to:

Carl Stivers, Scheffler, Linda, Amanda Shellenberger, Kristine Koch, Andy Koulermos, Amanda Spencer, Sanders, Dawn, Laura Jones, mcoover, LaFranchise, Nicole, TARNOW Karen E

12/11/2007 02:32 PM

Cc:

"Bob Wyatt", "Rick Applegate", "MCCLINCY Matt", "Jessica Pisano", "Gene Revelas", "Christine Hawley", "Valerie Oster"

Hide Details

From: "McKenna, James (Jim)" <Jim.McKenna@portofportland.com> Sort List...

To: "Carl Stivers" <cstivers@anchorenv.com>, "Scheffler, Linda"

<LindaSC@BES.CI.PORTLAND.OR.US>, "Amanda Shellenberger"

<ashellenberger@anchorenv.com>, Kristine Koch/R10/USEPA/US@EPA, "Andy

Koulermos" <akoulermos@newfields.com>, "Amanda Spencer"

<aspencer@ashcreekassociates.com>, "Sanders, Dawn"

<DAWNS@BES.CI.PORTLAND.OR.US>, "Laura Jones" <ljones@integral-corp.com>,

<mcoover@ensr.aecom.com>, "LaFranchise, Nicole"

<Nicole.LaFranchise@portofportland.com>, "TARNOW Karen E"

<TARNOW.Karen@deq.state.or.us>,

Cc: "Bob Wyatt" <rjw@nwnatural.com>, "Rick Applegate"

<RICKA@bes.ci.portland.or.us>, "MCCLINCY Matt"

<MCCLINCY.Matt@deq.state.or.us>, "Jessica Pisano" <jpisano@anchorenv.com>, "Gene

Revelas" <grevelas@integral-corp.com>, "Christine Hawley" <chawley@integral-

corp.com>, "Valerie Oster" <voster@anchorenv.com>

Thanks Carl, and just as a reminder to the agency-team: any consensus approach reached by the SW subgroup still needs to come back to the LWG Exec for review, comment, and approval.

Carl, please have Valerie circulate the latest draft to Exec for consideration. Please let us know if there is a drop-dead date by which you need an answer so that we can get it on the Exec agenda. Thanks, Jim.

From: #Fdu#Wylhu#p dlor=fwylhuC dqfkrugy1frp `#

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To: #Fkhiidu/#Dlqgd#Dp dqgd#Wkhonqehujhu#NrfkInulwqhc hsdp dldhsd1jry>#Dqg|#Nrxduup rv>#Dp dqgd#Vshqfhu#Vdqghu/#Gdz q>#Ddxu#Mqghv>#P frryhuC hqvuidhfrp lfrp >#DdIdqfkLh/#Q lfrd>#WUQRZ #Nduhq#I

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Stormwater Technical Team – EPA, DEQ, and the City have all agreed to this approach, with some additional suggestions from the City. Therefore, unless there are any objections, I will assume we have consensus on this. Thanks.

Carl

Carl Stivers

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Carl,

The approach to Sulzer is workable to us, though collection of accurate flow data may be challenging given that direct access to the equipment will not be possible. Back up approaches for sample triggering (e.g. a conductivity sensor) may want to be evaluated as well in the event that measuring water levels is not possible. Thanks for checking with us.

Linda

Linda Scheffler

City of Portland

Bureau of Environmental Services

(503) 823-2296

From: #Fduc#Wlyhw#[p dbr=fwyhwC dqfkrugy1frp`](#)#

Sent: #Wkxugd|/#Ghfnp eh#89/#533:#8=34#SP

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Stormwater Technical Team -

Just a reminder that we cannot proceed with the installation of the stormwater sampling equipment at Sulzer until we get some feedback from the team that the approach described below by Amanda is acceptable. Our next meeting is on the 19th (although I still need a confirmation from Kristine on that), so I definitely don't want to wait until then to discuss this. So, unfortunately we will have to try to resolve this one via email if at all possible.

Please respond, even if it is only to say you have no objections to the approach described below. That way, I can take a vote of sorts.

Thanks much for your prompt response.

Carl

Carl Stivers

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 fkhiidu/#Dqgd#Odxud#rghv*#p frryhuC hqvudhfrp lfrp *#OdIudqfkLh/#Q lfrd*#WUDUQRZ #Nduhg#H*
Cc: #Ere#Z |dw#Uln#Dssdjdwh>#P FFOIQF\#P dw*#Nhwld#Sldqr>#Uhgq#Jhyhclv*#Fkulwqh#Kdz d|*#Mp #
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Tech Team -

As requested in the last technical team conference call, here is more information on how we propose to collect composite water samples upstream of the WR-4 outfall.

We propose to install a flow meter and sample pickup tube into the main outfall pipe draining to WR-4. This pipe can be accessed through the 3.5 inch pipe protruding from the bottom of CB-17. By attaching the flow meter and sample pickup tube to a stainless steel rod, we will be able to mount them on the bottom of the outfall pipe. We anticipate using a spring-loaded mounting setup to insert the meter and pickup tube vertically through the small pipe into the outfall pipe, and then turning the meter and tube perpendicularly so that the meter and pickup tube will be on the bottom of the outfall pipe. We'll take pictures of the setup.

The flow meter will allow us to measure stormwater runoff and cooling water discharge. By measuring cooling water discharge during dry weather, we can determine the approximate flow volume relative to the stormwater runoff volume. It should be noted that these volumes will not be exact since the flow meter will not be calibrated. However, the flow meter will do a good job of showing what proportion of discharge from the outfall is cooling water versus stormwater.

We hope to install this sampling setup at Sulzer early next week if there are no objections. Let me know if you will have any questions.

Amanda Shellenberger, P.E.

Anchor Environmental, L.L.C
 1423 3rd Avenue, Suite 300
 Seattle, WA 98101
 Direct Line: (206)903-3371
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To: #NrfkINulwqhC hsdp dldhsd1jry>#Dgg|#Nrxdu#rv>#Dp dggd#Vkhongehujhu>#Dp dggd#Vshqfhu>#Vdggdw/#Gdz q>#Vfkhiidhu/#Dggd>#Ddxud#Mrqhv>#p frryhuC hqvuidhfrp lfrp >#DdIudqfklh/#Q lfrdn>#WDUQRZ #Nduhg#H

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Stormwater Technical Team -

As discussed at the last meeting, here is a high level summary of action items and highlights:

- ε We agreed the next meeting should be Dec. 19 from 11 to 1 pm. This would be in person, in Portland, since we will want to project the data on the wall. I will set up a WebEx meeting for those who may need to call in. I will confirm the location soon. **Kristine** - If this time does not work for you, we also set up an alternate time for Dec. 20 (same time of day). Let me know which one works best for you.
- ε Sulzer - The group agreed that we would proceed with stormwater sampling but NOT sediment traps at Sulzer, due to deployment logistics. Anchor will work on a more detailed description of how the stormwater will be collected and flow will be monitored.
- ε New Hwy 30 Sample - It was agreed that the sample taken on Oct. 16th at the new Hwy 30 site could be used as a sample, even though sample representing about 4% of the flow from the middle of the storm was not collected.
- ε Load Calculation Methods - Methods for handling replicates and non-detects were discussed and Integral/Anchor will prepare data following these methods for use at the next call. The next call will work on the next steps in the loading calculation based on these data. It was agreed that this data analysis would concentrate on 4 PCB congeners, As, Pb, 2 PAHs, and TSS for the purposes of deriving methods.
- ε The Port is going to prepare on a Field Sampling Report similar to the one being prepared by the LWG for the spring sampling at the non-Port stations.
- ε Anchor to look for a statistician to attend the next meeting.
- ε Carl was going to look into the groups pace relative to the overall project schedule to make sure we are moving fast enough.

Let me know if I missed anything critical.

Thanks.

Carl

Carl Stivers

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From: Fred Wyhu

Sent: 11/23/2015 4:45 PM

To: Nrfk INulwqhC hsdp dhsdijry; Dgg; Nrxdu rv; Dp dggd; Wkhonqehujhu; Dp dggd; Vshqfhu; Vdgghuw; Gdzq; Vfkhiidu; Dggd; Odxu; Mrghv; P frryhuC hqvudhfrp lfrp; OdIudqfklh; Q lfrh; WDUQRZ; Nduh; I;

Cc: EreZ; dw; Uln; Dsschjdw; P FFOIQF; P dw; Mhvfld; Slvqr; Uqh; Uhyhcv; Fkuwqh; Kdz ch; Mp; P fNhgqd; Ydduh; Rwhu

Subject: Wvup z dwu; Whfkq lfd; Whdp; P hhwqj; Qry; wk; dw; 5=63; r; 7; sp

Stormwater Technical Team -

At our last meeting, we decided to have our next in person meeting on Nov. 27th from 12:30 to 4 pm. I have secured Room 1904 at the offices of Schwabe, Williamson, Wyatt, which is at 1211 SW Fifth Avenue. We will continue our discussions of stormwater loading calculation methods.

In case someone cannot make it, the following call in number is also available:

Non Responsive

Thanks.

Carl

Carl Stivers

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56; Vrxwk; Z hqdwfkhh; Dyhqxh; Vxln; 53

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